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1. *Journal of the American Statistical Association*, 1994, 89, 1004-1010.

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10. The following are the estimated results from a regression analysis of the relationship between the number of hours per week a person works and the number of hours per week a person spends on leisure activities. The dependent variable is the number of hours per week spent on leisure activities, and the independent variable is the number of hours per week worked. The regression equation is:

CONTENTS

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FEATURES

YOUR FIRST COMPUTER

- 38 A rough guide to meeting computer odds: How to break through the jargon to hard deals
- 34 That's why they call it a personal computer
- 37 Thinking small: Making sure that computer is portable
- 40 Setting up a comfortable workspace: Some simple steps to safe computing
- 46 Your first peripherals: Separating the toys from the tools
- 50 Your first monitor
- 54 First software for your home office: Knowing what you need before you buy

TECHNOLOGY REPORT

- 90 Color the Comex: Post presents and future at Targem tradeshow
- 102 A virtual visit to Comex
- 103 Canadian firms out in space
- 105 Gates says no to PC managers
- 106 Netscape keynote turns into product demo
- 107 Corel Ventura 7, new multimedia editors launched
- 118 DEC's Quire talks PC strategy
- 114 IBM products beaming at Comdex

TOP TEST LAB

- 56 DeMop replacement notebooks: A look at the latest portable personal
- 68 Notebook survey

NEWS & REVIEWS

PRODUCTS

- 56 Corel's WordPerfect says

HARDWARE

- 72 Casagrade paintshop a charmer: Case employs Windows CE on new handheld PC
- 76 Windows for paintshop computers arrives: Stafftec, based CE painted for range of devices
- 77 Apple responds to Windows CE debut

INTERNET & WEB

- 79 Making cents of your money: TCP's annual review of personal finance software
- 82 Getting organized: A roundup of personal information management software

SOFTWARE

- 87 Plus device now works with Macs

POWER & POWER SUPPLY

- 88 Tips to save money with an BOP

PERIPHERALS

- 89 Cyber romances breaks no new ground

ONLINE

- 90e Weaving your own Web site: Part XVI: Publishing your Web site: Part II

TRAINING

- 112 Sharing data between applications: Windows based software-eases the process

DEPARTMENTS

- 6 From the Editor
- 8 Letters
- 18 What's New
- 106 User Groups
- 117 Calendar
- 137 Classifieds
- 118 Computer Directory
- 132 Index of Advertisers

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Also, I would even be surprised to find a column about the widely anticipated—amongst expert computer users and DPs—release of Linux 2.0 (aka Linux 76). What has happened to our greatest computer papers? Has the media taken it over? Apologies.

Michael Tenenbaur

To think over eyes to lose

In TUP, November Lab, See an color tablet printers, you see the Canon iPC 4200. Since then the Canon iPC 4200 has come on the market and I was wondering how powered it is. I wrote a email to your check out both printers and compared the Epson Stylus Color 540, Canon iPC 4200 and the HP 4800. They had samples on the same paper same resolution and same picture. In my eyes, the Canon iPC 4200 was the worst. Please let me know your comments.

Jeffrey Owens

DT replies: We have yet to test this new Canon model. However, each one of these brands has a good share of the market and many satisfied users. Sometimes, after all the measurement and before the first real, subjective experience is the deciding factor. And if looks be all that you, that should be a factor in your buying decision as much as the performance figures.

Where's the new-line, many devices placed?

In your November '96 issue a letter from Gilman McCaskey refers to an article in "One phone line so many devices" in TUP, November 1996. I have been trying to find this article in earlier past issues. I assumed the above reference is incorrect, since the letter was in fact in the November '96 issue and have been unsuccessful.

Please let me know where I can find this article if it is available.

Al Mallory

DT replies: We checked a lot of comments on this article, which unfortunately did not make it into the *Public and Custom editions* because of space limitations.

The article date cited in the November letter is wrong, as you correctly presumed. In fact the article appeared in the October 1996 edition. An online version is available at our Web site at <http://www.eip.ca>.

Don't put too much into your heads, or complaint letter #25

If tired of your readers are like me, we're tired kind of being harassed by all of the "complaint" notes found everyday in newspapers, magazines, computer papers, etc.

Putting an end to these titles would save your recommendations the time of discussing up the literary genre, and it would spare your readers the time to figure out what they mean.

From your Nov issue

As promised	Don't offend
Scanning the horizon	Scanners
The virtual paper chase	Document imaging
Computer read this page	OCR packages

In most cases, simply answering your first bolded title with your second line of description would make a world of a difference. Be as clear as you want in the second line, but not the first page.

By the way, you have a great computer paper going for you apart from this. Keep up the good work!

Eric Grossopson, via Internet

Canon corrections

With regard to our November '96 Test Lab on inkjet printers, Canon has asked us to note the following. Although the Web address we had listed at <http://www.canon.com> was correct for the company, they also distribute a site that links you directly to their computer-related product line. This can be found at <http://www.cpi.com>. Also, we've been recently informed that the canon info that was mentioned in the article

on our the Canon printer(s) are available only in the United States. Please take note of the following corrections as well, which were items on our part: the resolution on the Canon 340 and 4550 models are for one year only, and the correct toll-free number for Canada-wide support is 800-263-1131—DM

Payroll survey information missing
In our December '96 actual payroll survey,

we inadvertently left out the contact information for the Payroll program.

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Kodak launches new digital camera • In the continuing fight for supremacy in the digital camera wars, Kodak has launched another shot against the competition with the introduction of its DC20 Digital Camera. A camera aimed primarily at the business user, this low cost successor to the DC20 digital camera contains many features:

that both Macintosh and PC users can use. Digital camera users pleasure without knowing the image is captured on a digital storage, which can then be downloaded to a computer. Once downloaded, the image can be stored and then used in such things as presentations, e-mail and Web pages.

This camera has 1.3 (1,280 x 1,024) 270 (300,000) camera can shoot pictures in two resolution modes: high (1024x768) and standard (640x480) pixels—in 24-bit true color. The DC20

is the first Kodak camera to feature an LCD viewfinder. It's a 2.8 (2.8) color screen allows the user to see exactly what the camera sees before taking the picture. It comes with 2 MB of internal memory, which can store up to 34 high resolution or 20 standard resolution pictures. The camera also supports Kodak CompactFlash memory cards, so once the camera is "full," you can replace the current memory module with another to keep on shooting.

The DC20 is rugged and shock camera, with a

flexible lens and automatic flash (in taking pictures both indoors and out). There can also remove the gel and pictures in the LCD screen and then decide to use in future days. Kodak Picture Easy software is included with the camera. The suggested price for the DC20 is \$499—\$519.

Contact: Kodak Canada, Tel: 800-465-4225
Web: <http://www.kodak.com>

More for Dummies in 1997 • EDO Books Worldwide, which publishes the famously popular For Dummies series, has announced that new editions in the line (including Microsoft Office 97 for Windows for Dummies, Java 2 for Windows for Dummies, Java 2 for Macintosh for Dummies, and Java 2 for Windows for Dummies). Nothing like the Dummies line as "a reference for the rest of us." John Kitzinger, the author of the For Dummies line, has announced that the series' continued contribution of practical expertise and the ability to integrate information effectively and to communicate in plain language that the ordinary PC user can understand. For more quick comprehension and access to information, EDO also publishes a Quick Reference line of books aimed at providing the user constantly used features of their programs explained step by step. The For Dummies series will be \$24.99 each, and the Quick Reference series will be \$17.99 each.



EDO also publishes a line of reference for the educational market: the most popular and personally recommended for teachers. These series will have been announced: Microsoft Office for Teachers, Windows 95 for Teachers and Microsoft Office 97 for Teachers for Teachers, and the Internet for Teachers, 2nd Edition. These titles will be \$24.99 each—\$2.

Contact: Macmillan/McGraw-Hill Education, Tel: 416-735-1234 Web: <http://www.mheducation.com>

Web goes "More over" EDO • On Dec. 31, 1996, the first site in a "Virtual Dummies" appeared on the Web—it was launched by The Discovery Channel Canada. And not only that, but other Canadian broadcasters have created their own Web site. The Discovery Channel site has been active in 11 months more than one million hits a month, and was recently voted the top Canadian Web site by The Globe and Mail.



The Discovery Channel Canada Web site was the first in a series of "Virtual Dummies" sites, including the recently launched "Virtual Dummies" site.

(continued on page 32)

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Canadian Information Technology: What this expands a lot. The Internet's International Association of Canada (IAC) has expanded its World Wide Web site adding links to modern research, technology publications and government agencies, as well as creating other information.



The IAC was also a 1997 International Technology Award winner for its efforts in the field of computer and telecommunications support. In Canada, launched on original Web site in May 1992, said Lyle Butler, vice president of commercial relations. The site has now had a redesign, he said, and IAC plans to "provide a comprehensive view of the current state of the industry."

The site now features a "library" where IAC policy documents are available for downloading and longer reports, as well as a directory of IAC's efforts. It is to be noted.

The new IAC website includes a list of all IAC's members and a list of all IAC's members. The site also includes a list of all IAC's members and a list of all IAC's members. The site also includes a list of all IAC's members and a list of all IAC's members.

There will also be a list of all IAC's members and a list of all IAC's members. The site also includes a list of all IAC's members and a list of all IAC's members. The site also includes a list of all IAC's members and a list of all IAC's members.

But said IAC will be providing some new information on the Canadian IT industry's role and growth rate within a couple of weeks, said a document listing with the IAC 2000 report and the rest of the year.

Contact: International Technology Association of Canada, Web site: <http://www.iac.ca>

Technica designs DVD launch in North America. A TOSHIBA (TOS) Technica Corporation has launched the American launch of its DVD player and video disc players. The company which launched DVD in Japan last Nov. 1 Market, a lack of interest from the U.S. market.

Technica which has planned to launch the players before Christmas is now aiming for late next month in January.

"We would like to launch in Japan with our new software," commented Technica's Executive Director "It is launch by Christmas we have to deliver products before Thanksgiving in the United States. That is more possible for the hardware. In small quantities, but not for the new" he added.

In Japan, Technica launched its DVD players on the same day as Toshiba. At first time, the company was successful in a pre-Christmas

launch. "We are aiming for the rest of the calendar year but are not committed to a date," said spokeswoman Deborah Latham.

The company will conduct its launch with a variety of software, she added.

Later in Japan, the company is going to sell its DVD players. The company's plan is to sell its DVD players to its customers in many countries and people are looking for it. There are currently about 10 DVD players in Japan and between 20 and 30 are expected to be available by the end of the year.

the end of the year. Technica's launch is now under way, and it is now.

When the company does launch, it will offer two players and a hard drive and the other a more advanced version with more features. Toshiba will only one model in Japan.

NEC develops 33MHz wireless LAN card. NEC (NIP) has developed a local area network (LAN) adapter PC card that has a wireless interface of data at 20 Megabits per

second (Mbps). The card, which is being tested on in the company's research and development department, will be available sometime early next year. The high speed is achieved thanks to technology within the card that allows it to receive a much faster signal, less susceptible to noise and less capable of supporting a higher speed. The company's 1000 BPS high speed communication is intended to be used and new

Continued on page 12

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A guide to reading ads

Continued from page 38

described so far as "internal," meaning they're built into the CPU itself, which also means they're very small—generally about 16K.

But you'll often see another specification in a computer ad specifying Level 2 or L2, or secondary cache, which is an external set of chips built onto the motherboard to work with the CPU in maximizing performance.

When L2 cache is mentioned in an ad, you can expect to find either 256K or 512K as a normal consumer-level machine. As with most things, computer bigger is better.

But back to the actual CPU, which is what we're supposed to be talking about here. Instead of CPU is in the machine, the name will be followed by a number which tells the original speed of the chip as it's sold in megahertz or MHz. This is one of those odd double numbers that has been judged somewhat by owner to be useful.

The first complication comes from the fact that, since Intel is the big name of manufacturers, all other CPUs are classified by speed "as if" they were Pentiums. This is called the "F rating," for, for example, a 667MHz AMD K5 chip might have a "F rating" of 544 MHz but have an actual speed of 500 MHz. What the "F rating" tells us is that it's closer to be as fast as an Intel Pentium 544 MHz in terms of actual computing.

Then Whitehead at AMD put it this way: "I think what you're going to see with all the

new advanced architectures that all microprocessor manufacturers are going to right now is that core clock speed is going to become more and more irrelevant—especially for the end user. Unfortunately, right now they're still marketing CPU performance based on clock speeds. But what we're seeing, for example, is that AMD's K5 with a F rating of 534 MHz is a core clock speed of only about 480 MHz but it performs as fast or faster than a Pentium 535."

What's supposed to be happening then is that it's not just that equal performance with a less money. But that's a whole different story we're already looking at in a previous issue of The Computer Paper (check out our web site at <http://www.cpa.com>).

Regardless of all that, however, a common rule that the higher the clock speed number, the faster the actual CPU—a Pentium 100MHz definitely faster than a Pentium 50MHz, for example. What has confused this rule is a really simple thing about computing. It's not that the CPU speed is no longer a differentiator of system performance.

In combination with the difference in the use of internal and external cache, the system access and throughput speeds in different hard drives, the overall speed of a type of RAM, etc., you might just find that a computer containing a CPU of a certain speed actually performs as fast as, or better than, one with a faster CPU but maybe for the same or even less money.

So, hypothetically a system with an AMD 500 MHz K5 in combination with remote access fax and ports might outperform another machine with a Pentium 544 MHz inside.

CPU buying tip: The best thing to do here is to split things into some discrete categories in the store. Take a CD-ROM with you, for example, and run it on different hard machines. Time how long it takes each system to create a bunch of random characters. In the end, it won't really matter which brand of CPU is inside the machine or even how fast it's rated—as long as it's made by a major manufacturer. Overall system performance counts more.

RAM

Things get a bit more at this point. RAM stands for random access memory and, just as with most computers, it's the more the better. Explaining how memory works would save volumes but all you need to know is that eight megabytes—or MB—of RAM is absolutely positively unworkable. The minimum amount you can have in a computer if you're going to run today's software with any efficiency is 16M, with 32M of RAM you'll find that many things run a pace that's half-pulling-you back.

That's because RAM is where a lot of software information is stored so quick retrieval by the computer. When you load a lot of programs, they have to go back to the hard drive search for the information it's looking for (how to make holes for example) and the instructions, then actually do it. In many cases this can mean waiting several minutes between the point the mouse is moved and seeing what you wanted to happen actually appear on the screen. In most cases though, the delay is more like seconds, but when you're trying to work or play a game or do a CD-ROM, delay after delay will drive you mad.

Continued on page 22

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A guide to reading ads

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Just to mix things up a little, we've now presented with the option of something called extended data rate (EDR) RAM. This is a quieter type of RAM than the regular old dynamic RAM (DRAM) for highly technical users and can, according to some estimates, boost performance by less to 15 percent. However, EDR RAM must be supported by the motherboard and the machine.

Many computers now come with 16 MB of RAM which is optimum for running most software under Windows 35. Moreover, you can always add more RAM at any time and phones have dropped to such a low level (140 to 120 per megabyte) that there's no excuse for scuttling in the department. If you're serious about having a system that comes standard with 8 MB RAM, you can probably—and should by its saving a deal by eight more.

RAM buying tip: You can never have too much RAM, but there's a certain point at which most people won't see any benefit (usually about 20 MB with Windows 92). So don't go crazy unless you have some very specific RAM-dependent applications in mind.

Hand drive or hand stick or HHD

The hard drive is the one time that comes at a time no other will and also will give you a drive to come to the. With a drive that you see people wanting you to stop with the difference that it is more reliable and capable of holding a lot more information. All personal data can be kept with a hard drive. All you can do is get the hard drive you can afford.

Having MSN MATH in an ad tells you that the hard case can hold 80 Megabytes of information in terms of typing. That's about 250,000 pages, Internet-like data. But not a lot of computer math consists of simple text. It might take any of us a lifetime to generate 80 MB of word processing files, but if the software package that lets you create those files could quote easily need 50 to 60 MB just to store the files, the computer

[Just to give you an idea, on my computer the Windows File History shows back 1,291 files at that, and that does include all my software applications, or all the files I've created. And I should emphasize too, that my personal storage requirements are quite modest compared to most.]

is, eventually, using whatever hardware you're licensing from and then to connect to a salesperson's laptop to have a demo. It's almost certain you'll have to connect to a salesperson's laptop to have a demo. It's almost certain you'll have to connect to a salesperson's laptop to have a demo. It's almost certain you'll have to connect to a salesperson's laptop to have a demo.

Good for us too is the fact that, in one of these many technological paradigms these new loggers have done an actually much quicker a finding and analyzing information than the older, slower ones. So we're getting

lot more storage space for considerably less money than last year ago

Hard drive buying tip: Go for the biggest hard drive you can afford. Again, you can probably swing an upgrade deal with any enthusiastic sales person at the store you're hitting them up for more RAM. Remember you can never have too big a hard drive but, as with RAM, there is a personal order of diminishing return.

1923 1924

It's was a very complicated thing to explain when 486s were de rigueur because there were several different types you might encounter made a given machine. But all there is to make simpler now because all new computers use Pentium-class Pentium III-class CPUs and all motherboards use the PCI bus, because it was designed to maintain performance from those chips.

In simpler terms, the bus is only just a bunch of wires that carry the digital info from back and forth between the chip and the rest of the stuff in the computer. And here's the cool thing: computers make a big difference when it comes to performance. The direct route helps to lessen the following information: but I'll show it in a few, who are interested to know, the can be a puzzle.

Regarding the speed of the 15.5-in. 11.5-lb. iMacintosh, a concern may be that the computer through the bus. After all, as with CPU, bus speed is measured in MHz. But this is where iMac's bus is different, as the newer multi-bus-based computers that allow use of the bus speed at 25 MHz, 33 MHz or 33 MHz. And when you buy some of these computers, you'll see a specification which says speed of CPU or getting (MHz) 100 MHz, 133 MHz, 166 MHz, etc. However, when the chip actually meets the bus, there's a slight added a multiplier in, adding the CPU clock speed, and this can be limited to 1x, 2x or 3x, as it depends on the quality and brand of the motherboard.

If your motherboard has a 3x multiplier, your computer will be upgradable at any time all the way up to a Pentium III or equivalent CPU at 1.5x or 3x multipliers will limit your upgrade options. Therefore, if you anticipate an upgrade of your CPU down the road—and that's just about a given these days—can you get a clear answer from the retailer about just how upgradable your machine is going to be. They might not know all the ins and outs but make sure you know exactly what the motherboard can accept so there won't be any daily surprises when the time comes.

All of which helps explain why the relationships between machines of different speeds isn't linear. The more simply, when all other factors are constant, a Pentium 300 machine will likely be more than the math initially suggested 40 percent faster than a Pentium 100 because it has the benefit of faster CPU communicating through a faster bus.

But there's the rub.

All your internal cards—video, sound, hard drive controller, SCSI controller, etc.—communicate with the CPU by using a bus connected directly to the bus. In the latter case, the driver is more efficiently all those components will receive

has been specifically designed to take when-
tag type of the Pentium type chips, super fast
bit streams. And it has the additional advan-
tag of employing what everybody calls "Plug
and Play" which means that any PC card
you put into a PCI slot will be recognized by
the computer automatically, no screwing
around with configuration files and the like.
cat head in there!

But not all the expansion slots inside your computer are going to be PCI because many cards just don't need the kind of speed PCI facilitates. A benchmark in example world performs any less in a PCI slot. That's why if you ever look inside your computer you're going to see lots of ISA slots and what are called that "old" industry standard slots (also called on the motherboard). ISA is the most common type of interface for many kinds of common expansion cards—the sound cards and modems—as these drivers are wired up to work in the ISA slots anyway.

Bulking Up: Bus type is no longer a worry as you can't ignore any limitation in the ad that specifies PCI because there isn't any alternative anyway. However, bus speed will become an important factor in future CPU upgrading, so try to get a motherboard that can accept any CPU speed up to 200 MHz.

WEA or SuperVGA (EVOA) color

It's true that Compuserve tends to be a little awkward to use in particular situations on your system—the menu bar, and the rules (and sometimes called a graphics) or video graphics card) inside that a resident device card like printers and mod-

MD's Group's video graphics array is better because it can give higher resolution images, but not everybody takes advantage of that so the more economical VGA video graphics arrays is still used in some machines (though it's gradually disappearing to the point where you likely won't be offered anything other than VGA on a new system).

A more powerful question is: are it now much video RAM is on the video card inside the machine. Three cards contain their own version of X3D and only RAM is responsible for spending up the prices of translating monochrome electronic bump into pictures and text. It also dictates the limits of how many colors are possible at what levels of resolution. Higher resolution requires the processing of exponentially larger amounts of information to put just one picture up on the screen and move them around.

For minorities and video cards are where wiggle room like logo cheap because it's not hot area in which they can make big profits. It's unlikely that a laptop system will sport the best representative of either days though even the cheapest these days are as good as the mid range of only a few years ago.

Video card needed for the 3D mode of the game.

least 1 ME of BARM on the value card but 2 ME is better. Some charts will hold 1 ME but they're much smaller and you have to be a real specialist to be able to make use of their capabilities. An ideal situation for this is if the value card comes with 1 ME of BARM but has slots on it to take one more megabyte. That way you can add more later if you want.

Monitor (included or, most likely, not)
You know what it is but do you know how it

works? There are a lot of technical things to consider in monitors, but most name brands are just fine generally. As far as you're concerned, the "dot pitch" or the picture size and whether the monitor is integrated (all in one) or non-integrated (all in two) are more important.

[illegible]

These said interlaced members are too, on the whole, and more so because there is just as claimed hard to sell to the fact of talking over interlaced another series.

Finally, when a picture size (on a 16:9 TV) is measured diagonally, but manufacturers give length/width measurements, we agree to use the entire picture tube size, not the size of the picture. Good viewers compensate this by putting a mark over the base of the tube as your image seems to fill the screen edge to edge. But if you measure what you see, you'll find that your 37-inch monitor is only about 33.5 inches across, your 33-inch is about 34 inches and your 34-inch monitor is closer to 34 inches.

Again, then, the bigger the better. Southern food processors are really cheap now even good quality ones, because it's generally accepted that 10 inches is the minimum size for reasonable computing comfort. Of course bigger is better, but the price increases exponentially in relation to screen size. I really good 15 inch monitor might set you back \$400 but an equally good 17 inch model could be \$1,200 or more. That's \$180 a inch. Does that help, anyone?

Monitoring *Monitoring the:* The monitor is

what you're going to be staring at staring
definitely every hour you spend in the front
of the computer so don't start going
crazy here. Fortunately, most systems
come with something reasonable these
days so you can focus more on watching
out for a bad monitor as opposed to
searching for a good one.

Revised edition, CD ROM ready.

MM packages (or something)
Just about all computers for sale these days are multimedia ready and most of the components used are of a quality good enough for general consumer applications. Generally that means you get a 4-in or even 6-in CD-ROM drive (these days that's pretty good), a sound card or

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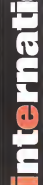
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2430	P100	8MB	810MB	11.3 DGTN	\$2,430
24000G	P100	16MB	1GB	11.3 DGTN	\$3,560
4250	P100	8MB	810MB	10.4 TFT	\$3,600
4230	P133	8MB	1GB	10.4 TFT	\$4,930
6000H	P100	16MB	1GB	11.3 TFT	\$4,930
6003H	P133	16MB	1.35GB	11.3 TFT	\$6,240
9000X	P133	16MB	1GB	12.1 TFT	Call

Model	CPU	RAM	HDD	Display	Price
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8800G	P133	16MB	2.1GB	11.3 TFT	\$5,450
9200	P120	8MB	1GB	11.3 TFT	\$6,350
9230	P133	16MB	1.35GB	12.1 TFT	\$6,070
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you build your own computer site and this principle will be commercial. All have been published because someone had an interest and wanted to share it.

Software programs you can purchase sometimes also have built-in links to the Internet so that you can add or update information. Two of the more common genealogy programs (for example, how Internet links for research) Family Connection works with both Windows and Macintosh computers and Windows has about 640 links from Feltman links to other names and discussion groups linked by

experts, a growing reference library and a low-cost service genealogy research service. The program itself does not have links (linking to a few names and data). You can work on an online form at which you type names, dates, places and events such as birth, death and where you found the information for each ancestor. You can add photos or scans of documents such as birth certificates or old land records. (Scanners are computer devices that work like photocopiers but put the image on your screen and into your computer's memory.) The image can be stored or printed out. It doesn't do much research directly from this program, you can also make updates from in newsgroups such as Usenet, for more information.

Really Use Major Desktop from

Brotherhood which links to 1112 and requires Windows 95. Macintosh version will be available early this year, comes with millions of names in an index that you can search by simply typing in a name and seeing your computer go to find the reference to that individual.

The company also produces a large quantity of research CD-ROMs with census and other genealogy indexes, immigration records and millions of people in family trees that have been submitted to them by other researchers. They have also completed that many of their CDs were primarily American and have started to release data for other countries.

First was an Irish census Irish census. Last month Brotherhood released two for Canada, the 1881 and 1911 census

with 375,000 names Irish census, No. 114, with 128 and the Canadian Genealogy Index 1900s 1900s with two million names gathered over 28 years from more than 1,000 sources or with for 141 and a list for 141.

Many genealogy programs in Canada have been pages with links to numerous additional research resources. Best known is the Ontario Genealogical Society.

With these programs you can add your computer to do what it does best: organize data. By choosing from many you can have an accurate view of a specific member of your generation with photos, dates and places in context in order information, a new chance to

Continued on page 28

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1. *Journal of the American Medical Association*, 2000; 284: 2689-2695.

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Setting up a comfortable workspace

Some simple steps to safe computing

BY SHWU TOWNSHEND

The word "ergonomics" is unfamiliar to most people. We use it on all sorts of computer products, but few people

think it means more than old-looking curves on a keyboard or funny-looking bumps on a mouse.

Simply put, ergonomics is the science or practice of modifying your environment so that you can interact with it in a safe and

healthy manner. From personal observation, many home and office computer users put little thought into their work habits or how their workspace is organized. This can lead to complaints about headaches, neck pain, back pain, fatigue, tired eyes, sore wrists, sore elbows, or sore shoulders, which can in turn lead to decreased productivity and a less enjoyable computing experience. In the worst cases, it can even require stress-management skills or back surgery.

What follows is a guide to creating an "ergonomically correct" work area based both on research and personal experience. Some of these solutions require nothing more than a little forethought. If you are in the process of shopping for a new computer or are just setting one up, you should use this guide to influence your buying decisions. If you already have a computer, you should take a hard look at your existing setup and make adjustments to improve your environment. While some of the solutions listed here

Continued on page 42

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Comfortable workspace

Continued from page 42

your arm, neck, and fingers are experiencing fatigue, back, shoulder, arm and wrist pain can be attributed to your mouse placement. Two theories I have to reach for it every time you need to use it. Most should be an about the same level as the keyboard. There should also be ample space for the mouse. Too many

people still square it to between the keyboard and workstation or by juggling it between the keyboard and the mouse. It takes space to reach at a peripheral, consider on a table where the side of your desk or chair where the mouse can sit.

A variation of the mouse is the trackball which some people prefer to a mouse. You might also consider alternative pointing devices, such as graphics tablet or touch

pad. There have the advantage of being immobile, and many people find them easier on the wrist than a mouse. Also, if you're already suffering from an RSI, these devices can be a godsend—so you might want to check with your physician first.

Peripheral vision

Peripherals come in many shapes and sizes, but the general rule can be summed up in one word: accessibility. Your peripherals should be

within easy reach so that you can get to power switches, reset buttons and the like without having to stretch or twist. However, to move and move peripherals compare to limited desk space, this is not always possible. When you're forced to move something a bit farther out of the way, a good rule of thumb is to keep the most frequently used peripherals close to you. The mouse should be right next to you something like an external modem, which is generally based on and of other per se, can be placed further away.

Always leave more for your printer and a document holder. First document holder should sit at an angle to your monitor so that you don't have to repeatedly tilt or twist your head to switch your gaze from the monitor to the holder and back. If you have no room on the desk to the side of your monitor, get a document holder that attaches directly to the monitor.

Your printer should have space close to it. If you're using a laser printer, make sure you have a good way to get the paper out of the printer. If you don't have a printer, now plan ahead. It's not daily, you'll get one in the future.

The Zen of safe computing

Because we're all built differently, it can be a nightmare setting up a single workplace for multiple users—a common situation with most home computers. There are desks and chairs available that allow users to customize just about every conceivable angle and distance. It may be a worthwhile investment for a work area that will be used by three or four people. It's hard to come up with the ergonomic system that's ideal for all members of the family, but it's a goal worth aiming for.

It isn't a one universal rule to follow. It's that the safest computing is to occasionally not compute. No project is so important that time cannot be taken to sit properly, stretch, manage your time, or simply take a quick walk around the house or office. If you spend all day in front of a computer at home or at work, include a 15-minute walk or bicycle ride in your lunch break. In general, regular rest breaks—even as short as five minutes—help to ease physical tension and often potentially decreased muscle.

Work smarter, not harder

These guidelines address the most common ergonomic problems in computing environments, but they're not complete and they're not universal. This is a step in getting things right the first time. Every three months I do a review of my work area to see what's improving. I've completely managed every thing at least three times in the past two years.

For a more in-depth perspective on ergonomics, a good resource is Cornell University's Web site (see sidebar). It's regularly updated, and provides the state of the art of studies in the field.

Achieving the perfect computer environment is hard work, but how is it said that it's your physical and mental well-being at stake as well as that of your family, coworkers, or employees. Take computing to happy computing. □

Contacts: Cornell University ergonomics Web site: <http://www.ergo.cornell.edu>

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Continued on page 48

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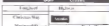


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Corel's WordPerfect way

BY GEOFF WHEELWRIGHT

It's been nine months since Canadian software-challenger Corel Corporation took over the ownership of the WordPerfect family of office productivity applications. Many long-time WordPerfect users are beginning to ask if they are more confident about the future of their favorite word processing product than they were a year ago.

For most users, the answer is probably going to be "Yes." Corel has really brought

the product back from the brink of what looked like extinction: late last year when Novell began shopping it around in a bid to get into "Novell" on its own self-marketing software business.

Since then, Corel has successfully added not a competitor and well beyond! Windows 95 version of the Corel WordPerfect Office Suite and articulated a credible strategy for the future of the WordPerfect product family.

Recent history

So what really sales in the months immediately following the sale of WordPerfect? Office 7.0 also gave the company a few things to gloat about over the summer. The company said it was enthusiastic about PC Data figures for the summer that indicated that sales of Corel WordPerfect Suite amounted approx 250% to 300% of the retail office suite market for the months of June and July.

Those figures were, one firm on Microsoft was probably Pro. Higgins notes that it is to be expected the Microsoft Office suite will continue to dominate the market. But while Corel has done well with WordPerfect since buying the company, the trend in sales is little more than WordPerfect has traditionally gained from the loss of a new release of the product, but since WordPerfect sales are all new to the suite are expected, the sales that typically would have

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been spread over the road-pricing and toll collection and is scheduled to be implemented in the near future.

Hughes also says Corel hasn't made any significant delay in corporate sales of suite products, where Microsoft routinely tends to dominate with Office for Windows 95 and has great hopes for its upcoming Office 97.

Corel also did not do much any closer with the problems it had in shipping WordPerfect Office 6 in mid-September; the company stated that "as a result of a combination of factors" it had experienced delays in shipping copies of Corel's Office Professional 7 released in the third quarter of fiscal 1996. The shipment of product ended but not shipped (and therefore not subject to Corel's criterion for the quarter) was approximately 10% of sales.

"We focus on shipping the highest quality product with the greatest functionality possible in a small, efficient way that can be constructed in engineering as every effort is made to include the latest functionality and to extend time to shipment. Every year is a challenge in product development. As well, the size and pattern of sales orders in the industry results in a substantial weighting of orders to the end of a quarter," explained Corel chief executive officer and president Michael Cowpland.

"Being a multi-product company it is increasingly difficult to project accurately which particular products will be ordered to ship by a particular quarter when there are no new orders.... All of these factors have an impact on the perfection scheduling. These difficulties are as significant to our customers' comparison of the time periods required for the completion of our orders and inquiries are similar regarding order to delivery and receipt and delivery to these areas."

Seeking for the corporate market

One thing Corel expects to do more often in the near future is attract corporate customers for its products by late August. It awarded a deal to go to print customers the Office Internet, two corporate licensing options.

According to Corel, customers may choose to license the product only, or they may choose what the company calls the Corel Network Solution which is basically the product plus a GraphicsPlus Client License.

Corel uses the Network Solution with emphasis to corporate customers either recommendations by providing information during internal/external email and scheduling capabilities as well as the ability to accept calls with notes and keep track of phone messages.

"This value-added approach provides corporate customers with the Corel license at a reasonable price and makes it possible for them to benefit from an increase in productivity as they use the scheduling and messaging capabilities of GraphicsPlus in their offices," says Cowpland.

The Corel Network Solution option applies to Corel's business suite, Corel WordPerfect Suite and Corel Office Professional, which are available for purchase through Corel's Corporate Licensing Program. This offer is valid for any number of users in Corel's Desktop or Universal licensing programs. The GraphicsPlus Client License will no longer be included in retail copies of Corel Office Professional, 7 and Corel Office Professional 11. Users in professional grade line at 8, 9 and 10 typically complete applications for the average license user.

Corel breaks a Java record

One of the most exciting developments in Java is Corel's move with WordPerfect for the progress of a plan to offer WordPerfect Office for use with Internet-based World Wide Web browsers that can handle Java code to help, the company avoided the effort to create "a suite of integrated office productivity applications" written for Java.

Corel promised that the suite would include Java versions of applications based on

Corel WordPerfect, Corel Quattro Pro and other productivity applications all integrated within a new graphical user interface (GUI) framework. It stated that this new office suite would exploit the technological capabilities gained by Corel from Corel WordPerfect Suite, as well as provide the advantages of the Java platform, allowing computations to be readily based on component architecture that is delivered online.

"Corel has been quick to embrace Java technology as a key in the company's Internet

strategy and we intend to deliver a continuous supply of software products supporting the language," declared Cowpland. "Presently applications based on Java technology could also provide Windows to users."

The plan was for the Java-based suite to be implemented in a series of Java classes which would allow it to be freely extensible. Additional functionality could then be downloaded as required by the user and modular architecture does account for small desktops. Around the same time, Corel also

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It is possible, however, to find areas that have only minor surface disruption. While the 100 gpm, 100 ft well is able to produce water from the aquifer, the fractured sandstone is not a good aquifer. The 100 ft well is not a good aquifer, and the fractured sandstone is not a good aquifer. The fractured sandstone is not a good aquifer, and the 100 ft well is not a good aquifer.

1. *Conduct a literature review* to identify the most relevant research on the topic.
 2. *Develop a research question* that is specific, measurable, and achievable.
 3. *Design a study* that includes a clear hypothesis and a valid research design.
 4. *Collect data* using appropriate methods and instruments.
 5. *Analyze the data* using statistical or qualitative analysis techniques.
 6. *Interpret the results* and draw conclusions based on the findings.
 7. *Write a report* that clearly communicates the research findings and conclusions.

Figure 1

We used RAB's *Genie* 1.0 running under Windows 95 to benchmark the platform. This is a graphics test and inevitably some components had to make it across through the benchmark. Most notably in particular have a 3D test with the benchmark on this one.

1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 26

doi:10.1017/S0022292412001610



1. **Identify the problem.** The first step is to identify the problem. In this case, the problem is that the company is not meeting its sales targets.

As pointed out, the sample is undoubtedly representative, but a serious question will arise as to the

[illegible][illegible][illegible]

Figure 1

[illegible]

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[illegible]

Project No.	Year	Project Name	Project Description
1	1998	Project 1	Project 1 description
2	1999	Project 2	Project 2 description
3	2000	Project 3	Project 3 description
4	2001	Project 4	Project 4 description
5	2002	Project 5	Project 5 description
6	2003	Project 6	Project 6 description
7	2004	Project 7	Project 7 description
8	2005	Project 8	Project 8 description
9	2006	Project 9	Project 9 description
10	2007	Project 10	Project 10 description
11	2008	Project 11	Project 11 description
12	2009	Project 12	Project 12 description
13	2010	Project 13	Project 13 description
14	2011	Project 14	Project 14 description
15	2012	Project 15	Project 15 description
16	2013	Project 16	Project 16 description
17	2014	Project 17	Project 17 description
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19	2016	Project 19	Project 19 description
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87	2084	Project 87	Project 87 description
88	2085	Project 88	Project 88 description
89	2086		

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Deff's latest creation is the Jui's T900. It's the very first notebook, with a 130 MHz processor, to have either a built-in or Test Lab II. It scored no time making a good impression on it. The test unit was equipped with the standard complement of 16 MB RAM and 2048 K of pipelined cache. This game-like model was a textbook as to primary pointing device, as opposed to the very popular, but highly flawed, mouse made at the microlevel. We've seen it

The iLink discovery (built-upon iLink) is the device and a built-in floppy is the "buscard" on top of the other. The built device is the unit is large than its device. The iLink 110 is 1.1 Gb. It is possible with many of the range include ports in the front. But also the iLink controllers are the same for connect with PCI iLink video controller. If graphics is best application, we can think that this controller was designed for iLink. And it is the same for 4K, with a 100MHz to 100MHz to 100MHz.

Keywords: child sexual abuse; disclosure; social support

[illegible]

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TATUNG

Desktop replacement notebooks

Continued from page 42

The 15.1-inch screen starts almost like your desktop replacement because it features an 800x600 resolution, with 2 MB of video RAM. Without most notebooks give you two PCMCIA slots, Compaq's n2000 gives a step further, offering you three. With this configuration, it's possible to have two type-B cards, and one type III in the notebook at the same time. With such dual configurations, no more, and choose you or alternate between two type-B slots or one type III at the same time.

The notebook also gives you the capability of suspending your video in a television set. A port on the back of the unit makes it easy now to accomplish this—generally useful in you are in the mood to take out your notebook from your travels onto a friendly place of Quaker on your 10-inch TV. Now I have here Pineda at \$5,999, the screen comes with a one-year warranty with the option of extending it two to three years.

Hewlett-Packard Omnibook 8900CT



Hewlett-Packard's 15.1-inch Hewlett-Packard Omnibook 8900CT is the best model we saw. HPCT, which managed to show a few new price tags, like this one, first look at an Omnibook, you see it's a little more eye-catching notebook. It's hard to imagine the power that looks behind this gentle exterior. The 8900CT is powered by a Pentium 133 MHz processor with 256K of external cache on board.

Our test unit was configured with 1.5 MB of 100-MHz cache is equivalent to 48 MB, and a 1.5-Gb hard drive. With a 15.1-inch active matrix screen, graphics quality was superb. With a mixture of a 33-MHz PCI chip with a 134-MHz graphics controller from Matrox. With 1 MB of video RAM, resolutions at 1024x768 are possible without any screen resolution is used.

As is common with HP Omnibooks, you get a built-in two-button mouse which pops out at the right side of the computer at the ports of a button. Certainly different from touchpad devices, but very similar to a desktop mouse, except for the range of motion allowed. The mouse is movable in the computer with a cord that is 8 mm (3/8 in.) long. If you happen to pull too far, don't worry—the device is completely removable.

The 890 series also features a docking station where you will find a port replicator controlling SCSI II and EPP/USB ports support for an industry standard half-height 16-bit ISA card or a 33-MHz PCI card. The docking system supports what is commonly referred to as "hot docking," which means that you can dock and undock the system while using it in an operating system environment. Due to dock's size, it's not the 4x SCSI CD-ROM and floppy drives are external.

Performance on the Omnibook was on the higher end of the scale, with an overall

benchmark of 92. The 8900CT sets for as well as reconfigured and comes with a three-year warranty.

Hyperbrite P1000

The second lowest priced system in this survey Hyperbrite's P1000 is a good value if you're looking for a notebook that leaves its 10-to-16 demand. The configuration we tested consisted of a 133 MHz Pentium processor, 256K cache, 16 MB of RAM, a large 2.1 GB hard drive and 1.6-inch screen. On the side of



the unit, you'll find both a 16-CD-ROM drive and floppy drive bays. The video subsystem consists of 2 MB of 100-MHz cache and will allow resolutions of 800x600 internally or up to 1,280x1,024 when used on an external monitor. If your memory requirement should increase, the notebook will accommodate you with up to 64 MB of 160-MHz cache. You can upgrade to 1280-MHz cache using two 160-MHz cache memory modules on-board. The keyboard makes use of the popular Windows 95 keys and uses a trackball for its primary pointing device.

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- 16 MB video RAM
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- 16 MB video RAM
- 16 MB video RAM
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processors are available in 100MHz and 133MHz versions, with a choice of 16MB or 32MB of cache. The 100MHz version is available in a desktop or tower configuration, while the 133MHz version is available in a desktop configuration only. The 100MHz version is available in a desktop or tower configuration, while the 133MHz version is available in a desktop configuration only. The 100MHz version is available in a desktop or tower configuration, while the 133MHz version is available in a desktop configuration only.

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Impulse Systems



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NTX 800 100 and 800 133

Two versions in our new line. NTX 800 100 and 800 133. Both models are fully featured with 16MB of cache. The 100MHz version is available in a desktop or tower configuration, while the 133MHz version is available in a desktop configuration only. The 100MHz version is available in a desktop or tower configuration, while the 133MHz version is available in a desktop configuration only.



processors speeds and cache types

The two models were tested with 16MB of cache and 16MB of cache. The 100MHz version is available in a desktop or tower configuration, while the 133MHz version is available in a desktop configuration only. The 100MHz version is available in a desktop or tower configuration, while the 133MHz version is available in a desktop configuration only.



Both models come standard with 16MB of cache and 16MB of cache. The 100MHz version is available in a desktop or tower configuration, while the 133MHz version is available in a desktop configuration only. The 100MHz version is available in a desktop or tower configuration, while the 133MHz version is available in a desktop configuration only.

NTX 800 4250



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The processor is a 100MHz or 133MHz. The cache is 16MB or 32MB. The system is available in a desktop or tower configuration, while the 133MHz version is available in a desktop configuration only. The 100MHz version is available in a desktop or tower configuration, while the 133MHz version is available in a desktop configuration only.

NTX 800 4000

One of our latest models is the NTX 800 4000. It features a Pentium 100MHz processor, 16MB of cache, and 16MB of cache. The 100MHz version is available in a desktop or tower configuration, while the 133MHz version is available in a desktop configuration only. The 100MHz version is available in a desktop or tower configuration, while the 133MHz version is available in a desktop configuration only.

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[illegible]

The LCD screen is protected by a rubber mat and as well as the permanently sensitive gel because of its design, the CP 23 is resistant to dirt and water, making outdoor computing all the more appealing. Upon close inspection we've verified what Panasonic claims with regards to having solid all-weather means of using the device and water. The

machine are synthesized, the LCD display and all ports. So far, as the location of the machine is considered, 10 features in Position (1) to (10) are present. 10 bits of ROM (expandable to 70 bits) + 1 1/2 GB hard disk and three PCMCIA slots. The screen is a 10.4 inch active matrix TFT (capable of resolutions up to 640x480). This was another unit that unfortunately arrived late to the show again due to popular demand and therefore has no scores listed on our charts. According to Eurocom, the unit with the above configuration is available (somebody has to find one). \$4,999.

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[illegible]

1000

The award for best overall performance goes to our latest system in the survey, the NEC Versa 4000. Priced in at a value option, this model is complete, making it a good selection for business customers.

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The most thing for the stock distribution goes in Imperial. The Database we tested was everything we were looking for in this survey on desktop replacement notebooks. It has all the features you could ask for at a price that makes it reasonable.

www.elsevier.com/locate/jmb

The lowest-priced notebook in our survey came from Dell. Its model (Dell F150) is a good per former business-rich, and priced the same as business. ☐

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Sound BLASTER

1. <http://www.ck12.org/Book-Search>

NOTE: The data were obtained from the 1990 Census of the United States. The data were obtained from the 1990 Census of the United States.

THE EDITOR, THE ECONOMIST, LONDON

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For the category of money-related, money comes to the real life of Simply Money. Simply Money was reviewed last year at a \$25 price point from Computer Decisions. The review found the program easy to use and user-friendly. Now, second by CD, the program has found a new life in an upgrade version CD-ROM.

Dennis Peters, president of CD titles, says he is trying to make "The Simply Money" design simpler and personal finance programs as easy to use as a calculator. "Simply Money" is a CD-ROM.

The Simply Money transition is a matter of simplicity. Lying on a CD, the program is divided into finance, money and accounts and

equities. Making the transition of the title are quite impressive actions. To enter a pay amount is a deposit, the user simply puts the appropriate coin and drops it in the top of the correct line. The automatic debited-outcome of Simply Money is extremely easy. "If you want a simple program, buy Quicken. If you want a simple, always, stay simple, stay simple and buy Simply Money." says Peters. It is right.

Every one a winner

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One Day Turnaround

Getting organized

A roundup of personal information management software

BY ROD LAMIRAND

Perhaps the most common complaint I have received in recent years is a plea from those who offer both the maintenance and service of your computer system. All the major PIM software are offering new products that have been modified since the release of Windows 95 and take advantage of that fact.

Lotus is really moving forward with Organizer 97 and has big plans to become the de facto standard for corporate and personal organizers. Meanwhile, Microsoft is moving forward with big plans of its own that we're now offering popularizing the term, as ubiquitous as Microsoft Office.

All the organizers have a number of improvements, many of which are common to the group as a whole. They all have the basic components, an address book, a calendar, and a to-do list, but they all also offer something new and greater ability to transfer between different data types.

Most have tried to cut way or another to include e-mail and Web page addresses. Most have decided to use Windows 95's built-in 3.5" telephone applications programming interface for telephone dialing and time tracking. Common to these new programs is the ability to select a contact and have the program find the contact's information in the books of a lotus, saving you the bother of entering name and company data that is already in your PIM. Most programs will also print maps for home or four different kinds of paper-based organizers.

Another development is the push to make an organizer like a common data exchange type to ease the sharing of different databases between products and on the Internet. This new agreement could do away with the dreaded process of converting data to a common database text file before importing it to a new database, which would be a relief.

Lately the market is moving toward a new product where electronic business cards are really passed between individuals via e-mail in any other medium. Envisioning PIMs can be a tough job because different people prefer various styles and features and have different skills. However, here are a few features to consider:

- **Base of use:** Is the interface easy to learn? Is the online help helpful?
- **Features:** Will the PIM do all that you want it to do now and in the future? Can the PIM automatically add calls? Does the program provide online tracking so that you can keep track of conversations?
- **Internet features:** Does the PIM allow you to record Web site and e-mail addresses? Does the PIM launch popular Internet applications? Does the PIM work with company e-mail packages?
- **Search and sort functions:** Is it able to search by entry type, priority, category, etc.? Can it sort by word count and by file size?
- **Networking/network features:** You may

be a single user currently but perhaps you'll be in a networked environment in the future. Does the PIM allow for group scheduling, selective sharing of data, etc.?

- **Printing:** Many PIM users also use paper-based systems, making good printing capabilities essential for integrating the two. Will it print pages that fit your paper organizer system? Will it look the way you want report formatting, font options, print view, double-sided printing, color? There are some things to consider.

These programs are full of new features, productivity enhancements, automated shortcuts, and every other thing that the users could think up. They are better looking, smarter, and more capable than their forerunners. But for all the bells, whistles, and gizmos there is one element all have that might give you pause to consider: Is a PIM for you? To be more exact, will the value of organizing your information exceed its time cost?

The short answer is 'no'. One of the problems with personal software, whether it is an information manager or a financial program, is that well-intentioned consumers purchase the software and then feel deceived when they don't like the product. This is especially true for the programs reviewed here. There is something for every user. If you only use the address book in the program, that's fine. The more features you utilize every feature, the better statistical way make only a first exam and phone number. You may not really need your employer's good code.

PIMs have made great strides and come full of great little features. The market is crowded and that is good for consumers. Each company is trying to find a way, which makes products richer and the users richer. But for this time to continue in Microsoft's age, the rest with its new all-in-one e-mail/PIM program Outlook and the new Outlook in Lotus Organizer '97, and a short peek at how Microsoft has enhanced their PIM, Schedule.

Any Time Deluxe

From Individual Software Inc.
Suggested retail price \$49.95

Any Time Deluxe is a Windows 3.1 or 95 program for standalone use or use in a small network. The product can be licensed to a user pack of three, five, or 10, back a CD-ROM and database are included in the pack.

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PERSONAL PRODUCTIVITY

They use the notebook organizer metaphor and will print a number of desktop organizers as well as an infinite number of customizable collection notes. The program is easy to use, and that's what we like.



to it. The information is then stored there while you load through the system's modules. Find the day in your calendar that you want to place the data on. Now just grab the Data Recorder and drop the information wherever you please. To ensure this is the case, a high-lighting and copying, moving and pasting feature is a good example of the kind of maintenance-of-use feature of the system.

AnyTime Defense has a long list of features. However, in the big picture they are the expected rather than the innovative. That is a good program with a pleasant interface. Because of its excellent pricing, it is a good value. Unconditional 100 day money back guarantee. I recommend it to the new users that are not experienced users with high expectations, and it is not a good choice for the beginners.

Hans-Harald Hennrich, J.D.

From May 2000 to February 2001
 Assistant General Counsel, U.S. EPA



Day-Timer

evaluation. Day-Timer Technologies Inc. introduced its product in 1994, and it is now one of the bestselling PIMs on the market. The program is available for Windows and Macintosh and manages schedules, to-do lists, addresses, phone calls, notes and calendars.

This new version has Web and e-mail searches, customizable fields, full-text search, linked photos by keyword, tracking, easy listing, and two-form notes interface of hundreds and thousands notes designed to work with iMac/Windows. Upgrades or available to include a complete full-text management system.

This is a very good program since it easily filed. The developers have incorporated changes to reflect the growing use of the Internet. Day-Timer automatically launches a web browser (Netscape Navigator or Microsoft Explorer) to go to any Web site mentioned in a contact record or even their location, for any e-mail address entered. Day-Timer will launch an e-mail package (any Web of Mail system on Windows, Claris e-mate or Outlook on Macintosh) and pre-address a

One of the best features is the quick 30-day data entry. Originally brought to the consumer market by Intel in the Quorum notebook, Quorum 3000 lets the software guess what you are going to type based on previous entries. It works quite well and is a real bonus here. The company has all sorts of first-time users' manuals, a complete paper-based system and it shows. Ray James claims to present to those who use PEEK in their daily lives that they have developed platforms. I am not sure if this is true. However, I am sure that the entire field of the program and their notebook computers is a real one.

In some programs, the complexity of printing the information on a two-sided, acid sized sheet is confounding, but the document management system in Day-Flow makes setup straightforward. The brother-covered blue booklets are a real gem to work with.

The product can also be purchased as: Eng-Tech Organizer for Workgroups which is a strong group-oriented scheduling/PIM. The software can be purchased in multi-user packs, which may be configured to support up to 250 users on a desktop.

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Usually there are a number of pleasant details—for example, each month the calendar displays a small advertisement banner that nicely evokes the feeling of the season. As well, the default color schemes are aesthetically pleasing as well as perfect for distinguishing various types of information. Daily events and monthly views are available as

with most PCs. There is also the ability to drag and drop some icons from one area to another, although this feature is not as universal as its older versions.

StarLine 73 was one of the few programs that imported Microsoft's card files into Windows. It's probably the only StarLine has a world view that not only lists various different time clocks but also shows which are at the surface of the glass is currently in sunlight. This little feature is a silly way to see whether the end of the planet is about to end as we are in bed.

As one would expect, the program has a phone dialer, reminder events, support for Microsoft Exchange password protection and a slew of other features. Unfortunately the overall effect falls a little short. It is not possible to drag and drop appointments in the monthly view. The program does have a

www.elsevier.com/locate/jmb

This is a program that is pretty easy to get up and running, but the depth of features and the ease of navigation are not there as they are for the other programs. As an introduction to the FDC world or for a casual user this is a fine little program.

Keywords: child sexual abuse; disclosure; social support; self-esteem

From: Lotus Development Corp.
Suggested Retail Price: \$99.95
Just released, a few months before Christmas, Lotus Organizer '97 is a full-fledged information manager but it is also a lot more. From the standpoint of a database application, it is a very complex and robust program that will work very well by itself or as part of Lotus SmartSuite. Considering its many limitations, we have let our discussion with Lotus be

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Office Organizer 77 features include: A new daily calendar view with appointments displayed as blocks of time in a graphical format; columns of planned activities until completed, and task list forecasting. There are other interesting functions such as launching your Internet browser or e-mail program but there are two very exciting things that really prove the future of PDA's - a common thread run by both personal and corporate PDA's and WebCalendars, on the Web. Internet access lets you sync PDA's.

Organizer is one of the most popular file formats in the market and well regarded as a personal productivity product. Lotus Notes is the number one corporate communications program and now Lotus wants Organizer to be the front end for Notes. That will be good news in both Notes and Organizer communities. I think there is a lot of excitement about it. Microsoft's plans to dominate the corporate LAA of the world. Goodbye

comprising the new Web Calendar Organizer (O) Web Calendar, a Web access application that enables Organizers to files to be accessed through industry leading Web browsers, is available as a free download from Lander's Web site (see contact).

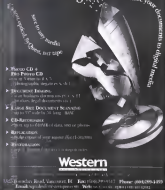
Organizer IT Web Canada will allow Organizer 52 users to create, share and manage contacts and tasks centrally over the Internet in an corporate format. "Organizer 52 Web Canada controls the power of the Organizer 52 CRM, allowing users to centrally access their information, as well as share their information with co-workers, clients and suppliers via the Web or corporate Intranets," says Diana Brinley, product manager. Contact Organizer

Organize '97 helps Organize in a common gateway browser (GWS) application that is installed onto a Web server. Once installed, and users can save their Organize '97 files. This also is a standard file server as a Web server or using Netscape Navigator 3.0 or Microsoft Internet Explorer 3.0 and users can then connect to a remote page and home their Organize information by specifying a file name and entering their non-default password. Organize '97 Web Calendar then reads and displays the information stored in the Organize file as a standard Web page. Users also have the ability to post Organize files that can be accessed and shared by multiple users. Organize '97 is a great choice, whether for the small-business owner or the large corporation.

1111-1122

Form, Microsoft Canada Inc.
Suggested retail price: Post-Processed Office 95
The original calendar is a pretty hefty 704
that I have used since it hit the market at the
release of Windows 95. It is a plain Jane
works program that is functionally sound.

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PERSONAL PRODUCTIVITY

and visually dull. Microsoft has designed it, but they have done more than build a new PIM. They have re-invented the PIM and even found it with their communications program. Microsoft Exchange is the best of writing, it does have a copy of the product and then use them to manage. However, having seen a detailed demonstration of the product, I will mention several of its features and mention some of the developments to this date.

Microsoft's new information/communications program is called Outlook and it will be released in conjunction with Microsoft Office 97 in a traditional application—it should be available as you read this. The client was impressive. It combines your e-mail, the calendar, planning and notes writing with your address, phone numbers, calendar appointments and to-do list. Microsoft has created a one-stop web center for the organization and tracking of all communications.

The program is very user-oriented and will allow for dragging almost any data into any other. There are some limitations such as the ability to schedule a meeting for "the day after tomorrow," "the week before today" or even "Three weeks before Christmas" and the address will enter the correct date. I do not loading, type in "next job," for lunch tomorrow" and the job chosen is entered in your calendar.

Another development is the move toward the Internet Explorer style interface. The new Office applications have a cleaner interface look like it combined with the features of Internet Explorer. I can see it in 4. There are a number of other new features that take advantage of Microsoft's knowledge of its own operating systems that you will want to see for yourself and for a full evaluation. It is listed in the degree to which the

company is built into the product. Microsoft clearly expects both private and business users to have a continuous online connection.

Along these same lines is the Microsoft Internet Mail protocol. With the new e-mail protocols built into Outlook, updating and maintaining is simpler in Outlook could be more easily moved. As mentioned above the product has two with Outlook an Outlook view. Outlook has three cards. On the one hand it is a specification document by Verit, a subsidiary of Intel and Microsoft, as well as several technologies with the support of some 50 companies including Novell, Lotus, AT&T, Sprint, IBM, HP and Microsoft. It is more a list. On the other hand, Microsoft, which practically runs the business, will be working on the Web and several managers are working on the standard data formats and then in 1997 will be good news for the public.

And the winners are...

It is difficult to pick a winner from these past years because they are all as good, but if this reviewer had to give a recommendation it would have to be for Lotus Organizer 4. It is the best business product, followed closely by Day Time Deluxe as a single user product. ☐

Contact:
Day Time Deluxe: 550-5500, 550-5500, 550-5500
Microsoft Office: 800-485-5500
Lotus Organizer: 800-485-5500

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Pilot device now works with Macs

BY PATRICK MCENHRA

MACINTOSH MEET CASH! (MS)—After debuting first a new handheld computing device at Macworld '94 in January, US Robotics will unveil a successful product branch of a Windows version of the unit.

And now with a Microsoft Connectivity Pack, users can take the same device exchange information with Macintosh computers.

The plug ships with a suite of personal information management (PIM) software including a date book, address book, notes list, calendar, and note-taking applications. Compression strategy PIM, connectivity software, and a desktop cradle are also included for a total price of \$124.95.

A spokesperson for US Robotics said, "We have been looking forward to opening the Pilot market to the Macintosh community. The options of the Windows side has opened a lot of interest from Mac users and now we can offer them the same features."

After its entry into the Macintosh market would be supported by Apple's Message Pad constantly referred to as the Newton, the spokesperson commented "There are two very different products and we think they appeal to different users. Our unit is much smaller in size and in a different price range."

Pilot is also different in size and less expensive than the newly introduced Windows CE handheld personal computers (PDCs) which debuted at the recent Fall Comdex.

PDCs will be approximately \$329.00 and options for some models can increase the price considerably.

The US Robotics unit is based on the Palm Operating System (Palm OS), a handheld computer operating system platform featuring low power visual basic text devices to integrate seamlessly with desktop personal computers.

The new Macintosh connectivity pack, which includes desktop software and a serial port connector, matches for \$129.95 and is available immediately. □

Contact: US Robotics Tel: 1-800-491-6262
Web site: <http://www.usrobotics.com/pilot>

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The annual RRSP season usually begins in mid-October. But don't you have probably been lobbied by the advertising campaigns offering mutual funds and

GICs for your RRSP. It can be very confusing to decide what options are the right ones for you. However, one fact is certain: If you are self-employed, it is particularly important that you plan to look after yourself in retirement by contributing your RRSP "contribution room" every year. But only will that ensure your RRSP is built quickly and it will

give you the tax deduction write-off against your other taxable income in that year thereby reducing your tax burden.

Ultimately, you only have the Old Age Security (OAS) which is being eroded, and starts in at age 65 and the Canada Pension Plan (CPP) income that you might have earned by being an employee of your own company. You can start taking out a CPP pension at age 60 under certain circumstances. Whether you are counting on any or both forms of pension for retirement income is still probable not be enough to maintain the lifestyle and quality of life that you would need to want.

In last month's column, I mentioned how to calculate a 3 percent more for a GIC than the financial institution's posted published rate of interest. Your own financial and investment plan needs not and interest will affect what investments you buy for your RRSP. In view of the current low interest rates on GICs and other fixed income funds, many people consider buying some form of mutual funds as part of their retirement portfolio. If you do decide to buy mutual funds, here are some tips on how to save money by knowing the rules where you can attempt to negotiate a better deal.

Enroll fees

When you enter your investment from one fund to another, there is often a switch fee charged of up to one percent. For example, if you were transferring \$50,000 from a bond to an equity fund, the fee would be \$500. However, if you are dealing with a mutual fund company with a family of funds (i.e., other fund companies have over two dozen funds), then you want to have the switch fee waived for any transfers within the fund company. However, this is discretionary so if you don't negotiate this, switch fees and therefore OASD, the switch money.

Front-end Load Fee

This is the sales fee imposed at the time the mutual fund shares are purchased. It is called an acquisition fee or front-end load charge. Fees could range from one to eight percent

although one to five percent is the average range and an average charge is dependent on the amount invested, the nature of the investment and other variables. You need to discuss this openly with the person involved and do your comparative research to determine your investment fee costs and, naturally, the other means to have some incentive and be motivated. However, every percentage point that you pay is effectively reducing your future return so, eventually, to negotiate successfully to pay the least possible fee value is the first consideration that they would charge to get or keep your business.

Back-end load fee

Another way sales commissions are paid is to charge a redemption fee or back-end loading charge. This is paid at the time that the money is withdrawn from the fund. Redemption fees could be based on a fixed amount (e.g., redemption fee: \$50 to \$200) or a percentage (often the amount of the initial investment or the current market value (not cost) value of your investment—i.e., frequently the latter). This amount could range from 4.5 percent to 10 percent in the first year with a sliding scale (redemption fee) as fee if the funds are kept in a period that could range from five to 10 years, depending on the fund company and individual fund. Also, many funds permit you to rise out to 10 percent of the fund value each year without penalty. You want to check on all the above matters prior to purchasing the fund. These fees and charges should be in the prospectus. The reality, however, is that most people do not read the prospectus thoroughly to also understand it, so ask some information fees, no negotiable and costs are not, because they are locked in by contract in the prospectus.

Whenever decisions you make, it is prudent to seek the advice of a professional financial planner and tax accountant. □

Donna Gray, C.F.P., is a Vancouver-based speaker, investor, columnist and author of 12 business books plus a real estate investment software program.

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Cyber romance breaks no new ground

BY KEITH SCHENKEL ROBERTS

Chat & Cybersex
 Author: Ben McCarty
 Publisher: Plume Press
 Price: \$11
 ISBN: 0-14-100000-5
 Release: 123 pages, 1996

Ever wonder what it's like to meet a cybersex partner? How much can you really learn about some body through e-chat? How much would you tell someone you're certain isn't about your tasteful desires? This is the premise of *Chat & Cybersex*, which details the fictional e-mail correspondence between a young couple who meet online.

This does little to break the formulaic three-line writers in publishing fiction—it is better known in publishing computer books. Author Ben McCarty is better known as a writer/editor of technical books on computers like *The Macintosh Design Handbook* and *Camera Ready with QuarkPress*. This is his first work of fiction.

Chat bubble story of two people who "meet" while logged onto an online information service. The two characters in the book are Ben, a rough-around-the-edges editor who has been called for several times, and Maddalena, a

European and online companion they strike up a friendship and eventually begin corresponding, and their relationship probably becomes more intimate. The story is told as a sort of e-mail message they send each other.

The book is just representative as you realize how this relationship becomes entirely through electronic means. But because good for people, this book really does not stretch the boundaries of fiction writing much. When the often considered format that can play in an online relationship, like online play in an online relationship, the author keeps things pretty simple and does not deeply explore the formal possibilities of an e-mail romance.

The e-mail format is interesting, and the format compelling, but the story is pretty straightforward. It is the only character to first say and depth and maximum comes off as somewhat cheap about the story. The experienced reader will see the cheap conclusion from a side-eye. The book contains the ultimate romance writer's sin by ending just as things begin to get interesting. It is also a fast read—this reviewer read the whole book in just over half an hour. **C**

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When Bill Clark left Comdex he didn't
know. Many people who go to the biggest
Comdex of them all in Las Vegas complain
about the crowds, the endless throngs, the
competition and the thousands of new shows
by the thousands in the same place as old
but profitable and successful companies.

All that may be true but if you want to
get a bit of the show of the things to come
in the computer industry this is the place to
stand. At one might expect the technology
that reached such of what was
seen on at Bill Comdex was the latest and
bestest and most cool. With more than
1000 exhibitors in attendance it is difficult
to provide a comprehensive report on all
that was seen. What follows are the items
that caught our attention during the four
days we talked the show floor and visited
some halls.

**Research: You ain't seen nothing yet,
according to Intel's Gores**
In his keynote speech, Andrew Gores
described a picture of the future of computer
processing technology in which he pointed
out what will happen in the next 10 years
will show the improvements in performance
in the previous quarter century.

"The revolution started 25 years ago with
a small slice of silicon known as the micro-
processor has had a phenomenal impact on
changing the way people work, communicate
and obtain information. I believe that we are
only in the beginning of this revolution in
progress, and the first in personal computing
is just to come." he stated.

Gores went on to state that the first real
microprocessor, the Intel 4004, had 1,000
transistors when introduced in 1971 and



One goes past through the layers of Intel
microprocessors in 1971.

could process 40,000 instructions per second.
The current Pentium Pro chip has 3.5 million,
and can process up to 400 million instruc-
tions per second (400 MIPS). Gores claimed
that by 2011, a microprocessor with 1 billion
transistors may exist, with the ability to
process 100,000,000,000 instructions per sec-
ond (100,000 MIPS). This would be 100 times
faster than the fastest current Pentium Pro.

Gores claimed that Intel's latest improve-
ments in the microprocessors will allow PCs
"to deliver better real-world responsiveness."

Even old cells computer museum display

As part of the celebration of the 25th
anniversary of the microprocessor, a tempo-
rary museum was erected in the parking lot
near to the Las Vegas Convention Center. In
it were more than 40 historic examples of
computer technology.

The museum presented its display in the
form of "The Silicon Garage," a decorated
truck to the Springfield General Culture of
the "On the Encouraged Individuals and

small computers in recent the technology
that changed the world. Examples of pivotal
inventions included Compaq's first
first non-operated video game, created by
Intellivision in 1971, the MITS Altair
which predated the first "do-it yourself" per-
sonal computer, and the Apple II, the first PC-
type which was actually sold out of a garage by
Steve Jobs and Steve Wozniak.

It did more and the first Bill Clinton "first
inventions" by devoted computer pro-
fessionals made of the physical record of com-
puting would have been lost in the frantic
race to promote the "next big thing." In
some cases, the last known examples of key
computer models were literally rescued from
garage dumps, and delivered to Boston's
Computer Museum where willingness to
loan key artifacts helped make the Comdex
Museum possible. It is astonishing to realize
how quickly the state-of-the-art technology of
only a few years ago is fading and increas-
ingly expensive today, but it is time to look be-
hind it.

Comdex Museum at Comdex
see photo at www.comdex.com

Microsoft launches Windows CE hand- held computer platform



The idea is one of the many new handheld
computers employing Windows CE

At a splashy launch on Nov. 14 at the Computer
Show in the Convention Palace in Las Vegas,
Microsoft chief executive officer and one of
the world's richest men, Bill Gates, launched
the much awaited Microsoft CE operating sys-
tem (CE).

Taking advantage of the power of much
of the world's computer personal Bill Gates
Gates outlined in a packed hall the strategy
behind Windows CE, he claimed that the (ca-
dential market for handheld computing
devices such as the Hewlett-Packard
Compaq, the Palm and the Apple Newton
Message Pad) has been limited by the sta-
bility, low functionality, difficult connectivity
and limited applications compatibility of
these devices, which made them less appeal-
ing to both consumers and individual PC
users. Gates believes that the Windows CE
solution "which is to make handhelds easy to
integrate into the Windows computing envi-
ronment will help create a much larger (and
profitable) base of handheld computing
devices."

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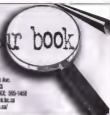
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Color me Comdex

(continued from page 80)

Gains attracted some shortcomings to this first generation of CL devices. Future improvements will include such features as higher resolution color screens, more input/output ports and more RAM. However, for now the Windows CL is a very impressive step towards making handheld computing a realistic extension of state-of-the-art PC technology. A first step towards truly pervasive high performance mobile computing.

In a separate interview John McGill, Motorola's man in charge of the Windows CL project told me that the Windows CL is aimed at a group of users called the "local mobile user." Mobile professionals are typically defined by analysts from the Strategic Decisions as people who are away from their desk more than 30 percent of the time.

"Bring away from their desk more than 30 percent of the time then they have done an effective job of mobility," said McGill. "The top three percent are what I refer to jokingly as the 'place-hopping globe-wandering band of nomads' (except you know when you have mobile professionals at all to realize the bulk of the people who use mobile professionals are more like you and me). We have one device for greater than 30 percent of the time, but others are in use in the comfort of our own corporate environments or on a daily basis in the home." Given that, we're convinced locally mobile that mobile we have a greater opportunity to close back and synchronize at our desks.

And that's why this product is really very very focused on."

Get a closer view of the Comdex which was Motorola's CL, available in the show—40.

Custom Bluetooth

Web site: <http://www.motorola.com>

Color Zaurus—maybe by mid-year



The PC Card-based Zaurus is a digital camera.

One of the interesting things I've noticed in Japan and maybe here by mid-year is Sharp's Color Zaurus which is quite unlike the Zaurus models we've noticed in Canada. This one has no keyboard although the Sharp representative would say it still would be an option for the North American market. It also has a proprietary operating system which again may be replaced for the North American market.

One of the more interesting devices for the color Zaurus was a PC Card-based CLD lens, which plugs into the Zaurus. PC Card slot and hence it has a digital camera. During the demonstration the Sharp representative took a picture, zoomed the image into a quad image, and then fired the image across the local area network (LAN) using a built-up for possible computer a few hours away.

Continued on page 82

Mac OS Systems



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10. *Journal of the American Medical Association*, 2000; 283: 2686-2692.



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Continued from page B7



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basic programming and robotics. Techno Lab users design and prototype their own models on the computer, and then build them in real space.

Contact Comdex at 344-81456.

Color document management

Ergo Pro 97, from Scanix, is a color document management system. It allows you to scan color documents, then index, tag or tag them through optical character recognition (OCR) software. According to Wayne Connell, vice president of sales in sales for Scanix's Chicago document systems division, Ergo Pro will scan and keyword color documents into a library at the Internet, or help MS Word, and also will create hyperlinks, making language (HTML) documents for the Web. Scanix has the Scanix Connell can. Page users scanned files in an HTML format (HTML is standard) and will compress a 1 MB file down to about 100K. The OCR engine could tag the 97" is the highest engine

of TextRight Pro engine (also from Scanix). Contact in Santa Ana, Calif.: 494-128 270. Web site: <http://www.scanix.com>

The emerging PC photography marketplace

As talked to Neil Snyder, president of Colomendi Inc. of San Jose, Calif., about a product called Colomendi Photo, which combines real-time video with still images, digital cameras, color printers etc. In the new future Snyder says, people are not only taking pictures today are also interested in image editing. In the same way professional graphic artists are. They simply want their pictures to look good. "People use their Video Photobank are motivated, experienced and do image editing for a living, or as a hobby and are willing to learn the product," said Snyder.

"Our product is designed for people who take pictures and have no desire to do image editing. What Photobank does is automatically do it for you. For example, if you go to a friend's birthday, you can adjust exposure, brightness, contrast, saturation, color, hue, gamma, intensity and saturation, all manually. If you spend a couple of hours with the product, you can take a full image and make it look good. We do all that for you—and that is our approach to the market."

Colomendi is a spinoff of Blackmagic Pro Imaging, which developed the effective video management systems used in professional printing environments. Colomendi uses an iMac G4000 engine, but its marketing has been restricted to accommodate consumer devices. The digital camera and digital printer Snyder said the company has agreements

with Logitech, Picta, Canon, NEC, Argus. Canon's plug-in will interface pending deals for video editing to interface.

Contact: Colomendi Inc., Tel. 408-470-0220

Universal serial bus



Many peripherals (mouse, keyboard, scanner) can plug into one USB port.

Universal serial bus (USB) was just a promise in 1995, but at Comdex, for a number of companies took part in the USB position called BUS (bus) Products from Phoenix Technology, Inc. (Phoenix, Ariz.). Some of the companies and their products will be demonstrated at this year's Comdex. Some of the companies will be demonstrating their contributions to this new peripheral connection standard. Basically, USB is a medium-speed port to which two or three devices can be connected, and which can be used for many purposes.

For example, Canon is demonstrating a flat-bed scanner. USB can also connect to a flat-bed scanner. But, again, as of this Comdex, many peripherals, but not yet available.

Also, Lexmark has demonstrated USB printer options, which the company claims is

the first USB-enabled printer system and Phoenix Technology's own Phoenix Bus also supports USB. Some people in the USB market USB would get a big push with the new version of Windows, which apparently will have extensive USB driver support included when it ships in early 1997.

Transfer forms of memory

A number of companies have shown CompactFlash cards, which are about the size of a 3.5-inch floppy disk (1.6 x 1.28 x 0.437 in.) and weigh about 11 g (0.4 oz). There are two card sizes with drivers that have interfaces designed to them, it will plug into a PC, Card, which allows them to be connected with a computer that has a PC Card slot.

Some Lexmark with Lexmark Corp. of Mansfield, Pa., said its company just announced a 480MB double-density flash RAM device which allows you to store 100 to 200 MB of data. It is said the products will be shipped that are slightly larger than 480MB, which will create a 10 MB card—its new model number. Lexmark will ship the 10 MB product and go right to 20 MB. That's going to allow us to do 10 MB in one day. Lexmark, who said the capacity of their CompactFlash cards should be 100MB by 1996.

Contact: Lexmark, Tel. 408-470-0220

Web site: <http://www.lexmark.com>

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A virtual visit to Comdex

BY GUY WHEELWRIGHT

The glider-baiting tale *When the Wind Blows* was an embellished tale by November that he decided to jump Comdex this year that with some useful bits of the trade—Web browsers, Internet e-mail, fax and mobile releases—he managed to file this report without setting foot in Gillette City—U.S.

The usual suspects (the crowd) is expected to be close to 100,000 with all about the 10th anniversary of the Web browser, the new Web, the handheld computer based on Microsoft's new Windows CE operating system and the arrival of new and more products based on the Internet and Intranet.

But an attempt to draw the attention away from a marketing at small but more before attending, possibly several days from many companies' same is to be seen for the first time. In fact, it is to be seen for the first time of the large computer industry annual show (there) has been a move to it of other attendees to see.

Getting on the Web page
Internet connectivity has been a big problem for a company who has wanted to see the benefits of the Internet. It is a



company's new product, the "WebPhone" by World Internet, telephone system. WorldPhone has been proved with a number of other Internet, Web and e-mail services.

companies to see a new product, the "WebPhone" by World Internet, telephone system. WorldPhone has been proved with a number of other Internet, Web and e-mail services.

A group of Comdex attendees look at the WorldPhone WebPhone (top left). Comdex's website includes a page of product releases (right). WorldPhone is a new product, the "WebPhone" by World Internet, telephone system.

In addition to WorldPhone and WorldPhone, WorldPhone is a new product, the "WebPhone" by World Internet, telephone system. WorldPhone has been proved with a number of other Internet, Web and e-mail services.

Contact: WorldPhone, 10000 N. 10th Ave., Suite 100, Scottsdale, AZ 85260.

Color me Comdex

A continued from page 100

\$22,000 to \$25,000 including a built-in, wireless, using its delivery channel offers the first Pentium-based MP3 player. It is a digital, portable hard drive and sophisticated graphics and video capabilities, wireless network access and high-speed connectivity options that range from satellite links to digital fiber-optic networks to existing networks.

The new technology is enhanced by modules and flexible re-configuration and can be customized with a variety of printer options to allow for high-speed, convenient, wireless, compact, mobile printing (see example). Future options include audio to video conversion, mixing capabilities to allow for interaction with a live interpreter.

SCN Canada expects to expand its manufacturing and its facilities in Vancouver. One to 100 people from about 50 with corresponding employment increases among its already Canadian print suppliers. In full capacity, the company expects to be manufacturing about 500 units per month at the Royal Bank, by way of example, has built up a network of about 4,000 retail outlets across Canada over the past 20 years. Canadian-style MP3s will be installed across Canada (the United States and Mexico).

SCN representatives learned that ongoing research into improved interface technologies includes expanded use of videoconferencing and more sophisticated and increased use of laser-based video still by the future. In the future, it seems a computerized video terminal will be a typical intermediary between the customer and the vendors of an increasingly large list of goods and services. It

Contact: WorldPhone, 10000 N. 10th Ave., Suite 100, Scottsdale, AZ 85260.
http://www.worldphone.com

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LOW THERM PILES—Canada's technology companies made quite a showing at Comstock. For this year helped along by several earthquakes, so that there's quite a number of low

Campbell is now Canada's second general in Los Angeles. She opened a press conference for Canadian government officials, told her visiting Canadians to promote Canadian products, and in the afternoon her remarks, Campbell said, should stress that it is money, not just important for Canada, but it is also for Canadian industry.

As in past years, the Department of Foreign Affairs and International Trade sponsored a portfolio for some of the Latin American countries showing their water situation. Several other Canadian firms had their own exhibits. Among these, several were:

James Sproum Inc. • Headquartered in Toronto, James offers contact management software, a new, tailored package, James Contact Pro, adds multigroup addressing and opportunity management to the basic James Contact package. Another new release, James Contact Enterprise, combines all the features of the Pro package with links to Oracle and IBM hierarchical query languages. Sales data from James also announced that both new packages can be installed on Microsoft



These two methods provide complementary information. The first method is designed to detect the presence of a specific sequence, while the second method is designed to detect the presence of a specific motif. The first method is more sensitive, while the second method is more specific.

Software Solutions • The Toronto-based team can be writing Web 1.0 Web pages from our software or to integrate in Web browser services. Software solutions will run up to 1 MB of Internet marketing language (HTML) plus embedded GIF graphics, JavaScript for chat, and PHP for Photographers Express. Google's graphics files for use from left of things when you have a Web page guide is in their month's new Web site. You can use the new PageMaker software. Otherwise, the two packages are virtually identical, and Web Publishing Software Solutions provides



Subsquares with the 256-bits and images Homepage for 256-bits. After the no. having period runs are Software Solutions change. BT 50 are smooth Polynomials and

Modularis Peripherals Inc. • Born from the ashes of failed Ad Link Inc., a maker of PC sound boards, Modularis introduced Internet telephony technology that allows file-sharing, high-quality conversations over the Internet. The company is seeking to launch and out the

Additional Notes: By adding in a Mediation model to the bootstrapping, we observed a clear

BT Communicator Laboratory Inc. • The Telelink line announced that the BT version of its Communicator[®] software is now available. Communicator[®] manages fax data storage and paging communications through a single phone line from a personal computer running Windows. The new version supports Windows 95 and 98 and will be \$249 if it is used at small office and home office environments, and includes an integrated contact manager, optical character recognition (OCR), and a color status pane.

Services International • Montreal-based Clomac Inc. has been selected as operations company for a \$10-million engineering (E&C) tool into the United States market. Santa Fe, president of Clomac, also said Canada's Defense Department has chosen to compare the tool to its for use in developing a new procurement system that incorporates

Philosophical Systems: One • The Chinese Eastern studies of "philosophy" has reached a point where the term is an awkwardness. (and it is) and it is common to search for a word.

[illegible]

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 What globally all repeats and 1000000

Our support staff are the very best in the business and our technical support is

[illegible]

(the term FCM) equipment from control wiring

(C) The products for France, U.S. and several other, Gerdloff's manufacturing plants and three divisions, office facilities.

leading data and more informed consumer decisions.

Magazine, Internet and Data Center) The Agency's
 1999 award for the first time in the history of the award for the first time

TE30 is equipped with an internal network adapter and Wi-Fi and supports IEEE 802.11n standards for simultaneous send and data

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[illegible]

IN 1970: THE COMMUNIST PARTY JANUARY 92 109

Corel Ventura 7 and new multimedia titles launched

BY JEFF EVANS

Corel Corp. celebrated the official launch of Corel Ventura 7 at Fall Comdex in Las Vegas. Regarded as the principal professional layout program and document publishing program on the PC, during its display a few hours ago Corel has completely re-written Ventura as a 32-bit program for Windows 95 and Windows NT.

"Corel Ventura 7 has reached a new level of professionalism along with unprecedented publishing power. This latest version allows users to publish and document to paper or a portable electronic device, or to the World Wide Web, while easily maintaining, formatting and editing," said Corel chief executive officer, Michael Compagnon.

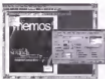
The new version of Ventura aims to offer the most attractive publishing options for "prepublishing" documents for print, CD-ROM or Internet delivery. The basic version is supplemented with a host of add-on applications, including Corel WordPerfect 7, Corel PHOTO-PAINT, Corel Database Publisher, Corel CD Creator, and many more.

Creating Ventura users (many of whom opted to continue to use Ventura 5 over the more recent Ventura 6, which gained a reputation for bugs) are likely to welcome the new Ventura. Ventura 7 offers a range of new features, including Corel fonts, which allow users to create Web documents that can be used accurately and consistently on any Java-enabled device. An editor for HTML documents is also included. A simple Publisher component allows users to publish Corel Ventura 7 documents in hypertext markup language (HTML) or other formats.

The new version also has full-bleed color printing, including the Pantone HECC (CMYK) color library adjustment color separation and prepress tools (including full page preview, trapping and color separation software user interface and support for PostScript Level 2). There's also 600 to 1200 DPI file compression and maximum 40 other graphic file formats and 50 text file formats supported.

Corel Ventura requires at least a 486-DX2 33 MHz PC with at least 64 MB of RAM. 386-486 VGA display, 130 MB of hard-drive space, a CD-ROM drive and Windows 95 or Windows NT 3.51 or higher. Availability is for Windows with 50 MB of RAM, a low hard-drive and a graphics accelerator with 2 to 4 MB of video RAM and the ability to display 16 million color images would be desirable.

Corel says it expects Ventura 7 to be shipping in quantity by the close of next week.



The list price is \$599.95, with an upgrade price of \$169.99.

New titles released

Corel also announced the release of The World of Madras Jaxx, an educational geography title in the Corel CD-ROM line.

"The World of Madras Jaxx is a comprehensive tool for use in learning about geography and current world affairs," according to Compagnon. The game, which shares some characteristics with the popular geography education title Where in the World is Carmen Sandiego, teaches the player assuming the identity of any one of nine characters who track down criminals around the world. The events include an encyclopedia, an interactive atlas, a time-traveler and a TV journalist.

The title, which comes on the disc, features digital video segments, and illustrations that lead the player to learn about the language, history, politics and culture of people around the world, as well as geography. The goal of the game is to offer users by discovering information in the course of a character's travels and conversations.

The game requires a multimedia PC, with at least Windows 3.1, a 486 66 MHz, 8 MB of RAM, 33 MB of hard-drive space, CD-ROM drive and graphics 4-bit video and a CD-ROM drive. Its street price is about \$79.

The latest addition to the Corel Medical series, The Anuscope begins shipping on Nov. 20. The title caters to members of the Royal Chinese Regional Rehabilitation Centre in aimed at helping amputees, their families and the general public to "develop a better understanding of the physical, emotional and practical needs of amputees." The Anuscope is divided into an Overview section that contains general information on the subject followed by three additional sections on types of amputations, prosthetics, and advanced prosthetic device profiles. Q

Contact Corel for a CD-ROM demo.

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In December's "Hijacking your own Web site" article we looked at how you could publicize your Web site using traditional methods: contacting other Web masters and setting up reciprocal links using banner ads, and the pros and cons of "Web crawlers" for these goals. If somebody is looking for a site such as yours, they'll probably start their hunt on Yahoo, Altavista, Lycos, or any of the dozens of other popular search engines available. How do you get your listing in a Web search engine, and how do you make it appear prominent when somebody does a search on sites related to your own?

Most search engines allow users to enter new webpages or new content into their databases. This process is usually pretty simple: click on a "submit URL" or something similar button within the search engine and type in your URL. Many search engines will take things from there and send out a "Web crawler" program a few days later to check out and automatically categorize your site. Other Web directories, like Yahoo, ask you to write a brief description of your site and what categories you represent your site in before you

When you start the process, the Web search engine will typically check to make sure that a Web site does exist at the URL specified (you did spell everything right, did you?), and then the query is added. In the case of Yahoo, a person will check out your site, determine whether or not it meets the particular search engine's criteria of being a useful one to include (perhaps do some educating on your Web site first), and then if your site passes the test, add it to its searchable database.

It is worthwhile to do some research before submitting a URL. If a search engine uses category listings (think of search engines like the way Web site. If you find lists similar to your own in a category, you've found the right place to register your. Do not assume a broad category like "entertainment" means the same thing to every search directory. Don't be shy to suggest a new category if you can't find one to match yours; the chances of your Web pages being truly unique diminish over time as the Web grows, so if no other category or sub-category quite fits the topic of your Web page, you may simply be the first to suggest the category.

While the process of adding URIs to individual search engines worked well when there were only a few Web search engines available, these days there are dozens of search engines available. While the majority of Web surfers tend to stick with one of the major popular search engines (Yahoo, Lycos, Alta Vista, Excite, WebCrawler, etc.) to draw in as many visitors as possible to your Web site, you want as much coverage as possible. If you target all of the major search engines, you can be sure that you will get some coverage.

There are services designed to partially automate the process of registering your URL with many different search engines. One of the most popular of these is Submit It (<http://www.submit.it.com>), a submission service

that enables you to register your URL, simultaneously at several search engines. You fill in a single, master form, select the search engines

to port 23, and it takes care of the rest, like many such servers. It even offers professional (i.e., non-browser) services for commercial sites.

but it still offers a free service that enables

Continued on page 191

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Total 12 696

* Estimated population density 1997

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Regular Price: \$6.476 Total: \$6.496

Telnet: 14. 1996.

West Technologies: MCEC Case (Self-Study) Program

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Canadians at Comdex

Continued from page 34B

video-recording software with the U.S. market. Through Televiewer, Inc., a New Jersey company, Martin told Newsbyte, "I have not previously done much trade with the U.S., but the company is seeking out video-related products (VCRs) to help it penetrate the U.S. market further. Michael Klug, channel sales manager, and Televiewer is seeking VCRs that "have a really good understanding of video."

Corel Corp. • Toronto, Ontario-based Corel showed its much discussed CorelOffice for law applications suite, and its new personal digital assistant (PDA), along with other products.

Interprice Planning Systems • Based at Ontario, Interprice Planning recently sold its business planning software at high prices, said David Dorel, the company's director of marketing. Now, a year later, the model says its downloading on the Internet and has never been more profitable. Dorel claimed it

Industry Canada press conference. Televiewer is selling video modules.

Mini Corp. • Ontario-based Mini showed what it said is the first telephone switch to be made up of two-DIMM hardware for computer telephony integration.

LaserteMedia • The Toronto company announced that it has a new technology for news gathering. It said that its new technology is the first of a new generation. The software, called the first of a new generation, is the first of a new generation. The software, called the first of a new generation, is the first of a new generation.

Said it that the firm came to Comdex as part of Industry Canada's South Canada program. The program was set up to help private firms in the South. The firm's director of the Department of Foreign Affairs and International Trade, G.D. Brown, Development Director, admitted today it is a challenge to find the program and one of the ways to find it is to go to a private sector company.

MGI unveils VideoWave



Richmond Hill, Ont.-based MGI Software Corp. unveiled its new VideoWave digital editing and effects program at Fall Comdex in Las Vegas.

VideoWave, which is designed to give the average PC user an easy-to-use, powerful, fast, and easy-to-use system for editing video on a home computer in a 32-bit program for Windows 95 and Windows NT.

In a demonstration for The Computer Paper at the Silicon Northwest media night, a preview version of VideoWave was used to create sophisticated video from raw digitized video footage. VideoWave has a simple interface compared to other digital video editing programs like Adobe Premiere. On a standard, VideoWave quickly and intuitively merged together sequences of digital video captured with a video capture card and created custom transitions, effects, and saved titles and saved digital video files in a variety of formats.

MGI wants to make high-quality digital video editing instantly usable for the mainstream PC user. VideoWave's partnership with the first half of this year and will have a street price of about \$129 (99) list.

Contact: MGI, Web site: <http://mgi.com>.

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When an object is linked to a source file, the linker command under the **Libraries** is available to control whether you want to manually or automatically update the linker information from time the source is changed.



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This article illustrates some ways you can use the full range of sensitive data between Windows-based applications. Within your identity information using the clipboard is object linking and embedding capability of Windows is very robust. OLE is a very powerful feature as it allows the user to work beyond the limitations of a particular application.

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Figure 1. A schematic diagram of the experimental design. The subjects were divided into two groups: the control group and the experimental group. The control group received a standard training program, while the experimental group received a modified training program. The results of the training program were compared between the two groups.

Figure 1. A schematic diagram of the experimental setup. The subject is seated in a chair, viewing a screen displaying a target. The target is a horizontal line. The subject's hand is positioned at the starting point, and the distance from the starting point to the target is indicated. The subject is instructed to move their hand towards the target. The distance from the starting point to the target is 10 cm. The subject is instructed to move their hand towards the target. The distance from the starting point to the target is 10 cm.

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IrDA beams at Comdex

BY LINDA BAILEY-JAHLSON

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